

1. Heuristics

- a. Is the Manhattan distance from the agent's location to the exit square admissible? Why or why not? (1pt)
 - i. Yes
 - ii. It will never overestimate the path distance
- b. Manhattan Distance
- c. Inadmissible heuristics are never optimal because it may overlook better options if it determines them to be costly if they aren't
- d. Admissible can be optimal as when searching it finds the best path. It may underestimate but it will later realize that